





Valerie Verhasselt



Professor Verhasselt is the Director of the Larsson-Rosenquist Centre for Immunology and Breastfeeding at the University of Western Australia and the Telethon Kids Institute (Perth, Australia). He research aims to understand how breastfeeding practices and milk bioactives influence immune development. The centre's research topics include health outcomes that are burden in both high- and low-income countries, including allergies, malaria, worm infections and growth failure. This knowledge will inform maternal recommendations to increase the chances disease prevention through breastfeeding and guide the development of preventive strategies tailored to the newborn.



Dr Malcolm Starkey completed his PhD in Immunology and Microbiology at The University of Newcastle, Australia. He then undertook short-term post-doctoral training at the National Heart and Lung Institute, Imperial College, London, before returning to Australia as a National Health Medical Research Council Early Career Fellow (2014-17) and subsequently an Australian Research Council DECRA fellow (2018-20). He was recruited to Monash in July 2020 to establish his independent laboratory.

Malcolm's team studies the immune system in the urinary tract. The primary interest of his reseteam is how microbial challenges predispose to chronic diseases with a specific focus on muo-cytokines and type 2 immunity to develop immunotherapies for difficult-to-treat bacterial infect

Páraic Ó Cuív

Dr. Páraic Ó Cuiv is the Vice President of Drug Discovery at Microba and an expert in gut microbiology and host-microbe interactions. Microba uses a proprietary database and a big-data approach to rationally identify candidate novel gut microbiome-derived therapeutics for the treatment of chronic inflammatory diseases. Dr. O Cuiv's team have applied innovative approache to 'bring the microbiome to life' and to dissect the host-microbe interactions that underpin host health, with Microba's lead live biotherapeutic for the treatment of inflammatory bowel disease, MAP 315, recently successfully completing a Phase 1 trial.



Associate Professor Sam Forster is a CSL Centenary Fellow leading the Microbiota and Systems Biology Laboratory at the Hudson Institute of Medical Research. Our research focuses on bringin together microbiology, computational biology and innate immunity to understand how to modify host-microbe interactions for therapeutic benefit. In 2019 A/Prof Sam Forster established and continues to manage the Austrialan Microbiome Culture Collection. He is also a co-founder of BiomeBank that has become a world-leader in the development of rationally selected microbiom therapeutics and achieved world-first market authorisation for a microbiom-based therapeutic is

Nicola Harris



Professor Nicola Harris completed her PhD in New Zealand then moved to Switzerland as a postdoctoral fellow in the lab of Nobel Laureate Rolf Zinkernagel, University of Zurich. In 2005 she joined the ETH Zurich as an Assistant Professor and in 2009 moved to EPFL Lausanne. In 2012 she gained a prestigious ERC starting grant and was promoted to Associate Professor. In 2018 she moved to the Department of Immunology and Pathology, School of Translational Medicine, Monash Indiversity, where she is Co-leads the laboratory of Mucosal Immunology. Her laboratory studies type intestinal immune responses with a particular focus on understanding their role in protection, physiology and wound repair/tissue regeneration.

Ashley Mansell

mmasomes and ation - it's as easy as NLRP 1, to, 3



Associate Professor Ashley Mansell leads the Pattern Recognition Receptors and Inflam laboratory at La Trobe University. His research focuses on Toll-like Receptors and Inflam in the innate immune system. After earning his Pib at Trinity College Dublin, he returned to the provided evidence of cross-talk between innate signalling pathways, viral immunomodal the structural and functional elements of PRF induced inflammation. He discovered a new class of viral aggregating proteins that activate the NLRP3 inflamm identified new therapeutic opportunities to target inflammasome-mediated inflammation inflammatory diseases. In 2020, he joined Adiso Therapeutics in Boston as Head of Tran Sciences, while maintaining his lab at Hudson Institute, to translate a novel inflammason in 2024, he joined La Trobe University to continue his studies on inflammasomes and the mucosal immunity.

Simon Keely



Professor Keely graduated with a Ph.D. from University College Dublin. He undertook postda training at the Mucosal Inflammation Program in University of Colorado Denver. He is curren Professor and Head of Discipline of Immunology and Microbiology and in the School of Bion Science and Pharmacy, University of Newcastle. He established the Gastrointestinal Research Corup at the Hunter Medical Research Institute (HMRI), where he is also currently Director of HMRI Immune Health Program. Prof. Keely is a chief investigator in the NHMRC Centre of Pexcellence in Transforming Gut Health.

Marcus Geuking



Professor Geuking completed his PhD in Immunology in the lab of Prof. Hans Herngartner and Nobel Issureste Prof. Rot Zinkennagel at the Institute of Experimental Immunology of the University Hengated Zinkennagel at the Institute of Technology (ETHZ Zinkennagel at the Institute of Technology (ETHZ Zinkennagel at Microschimerist and Professor (ETMZ)). The Institute of Technology (ETHZ Zinkennagel at Microschimeristin promotes cytotoxic Teal (CTL) loterance. Due to his continued interest in how presistent exposure to antigens impacts on the immune system. Plaefore experience in the Institute of Technology (ETMZ) and the Institute of Technology (ETMZ) and Institute of Technolo

l isa Mielke



Dr Lisa Mielke is Head of the Mucosal Immunity and Cancer laboratory at the Olivia Newton-Cancer Research Institute. She is a Cancer Program Lead for the La Trobe Institute of Molecu Sciences at La Trobe University. Her research focuses on immune cell development and funct the gastrointestinal tract. She has led numerous studies revealing new interactions between and transcriptional regulation of intestinal T cells. These studies opened an exciting frontier or

Kylie James



Dr Kylie James is head of the Gut Immunogenomics Laboratory at the Garvan Institute of Medica Research and an NHMRC Emerging Leader Fellow. After completing a PhD at the University of Queensland in 2017, she undertook postdoctoral training at the Wellcome Sanger Institute in the laboratory of Dr Sarah Teichmann and a junior research fellowship at Christ's College, University Cambridge. Here, she speatheaded the cell atlas of the human intestinal tract across anatomical space and developmental time. Kylie returned to Australia in 2021 to start her laboratory investigating the cellular and microbial contributions to intestinal disease using single-cell and spatially resolved gene expression technologies.



Associate Professor Quan Nguyen is the head of the Genomics and Machine Learning Lab at the QIMR Berghofer Medical Research Institute. He is leading the QIMRS National Centre for Spatial Tissue and Al Research (NCSTAR). He completed a PhD in Bioengineering at UQ in 2013, a post in bioMieinformatics at RIKEN in Japan in 2015, a CSIRO OCE fellowship in 2016, an ARO DECRA Fellowship in 2021, and currently holds a hIMRC Emerging Leadership (ELI) Pellowship. His bid develops machine learning analysis of single-cell and spatial multiomics data to study disease progression and drug response. His machine-learning and technological approaches aim to bring the advanced molecular and cellular applications to more patients over the world.

Rhiannon Werder



Dr Rhiannon Werder is a Team Leader at Murdoch Children's Research Institute leading a multidisciplinary team, combining expertise in stem cell biology and immunology, to develop not herapies for fung diseases. Her research centers around induced pluripotent stem cells to cret models of the lung, spanning acute respiratory infections to chronic lung diseases. After compler PhD in Mucosal Immunology at the University of Queensland, Dr Werder was awarded a NH CJ Martin Fellowship to undertake postdoctoral training at the Center for Regenerative Medicin Boston University, Her research has been recognised by prestigious awards includion:

Tim Barnett



Dr Tim Barnett completed his PhD at the University of Tasmania prior to embarking on post studies at Emory University (Atlanta) and the University of Queensland (Brisbane). It was du time, working with preeminent leaders in Group A Streptococcus genetics and pathogenesi became fascinated by how this pathogen could cause such diverse diseases in different in Tim's current work seeks to understand how and why Group A Streptococcus targets the to during infection, and to use this information to develop new treatment and prevention strate

Rimma Goldberg

Cell Based Therapies for IBD



Dr Rimma Goldberg graduated from the University of Melbourne and completed Gastroenterology Training at St Vincent's Hospital and Monash Health. Following the completion of her training, Dr Goldberg undertook an Inflammatory Bowel Disease Fellowship at Guy's and St Thomas YlhS Trust and a PhD at King's College London. She has had extensive training in managing complex inflammatory bowel disease and functional gut disorders. During her PhD, Dr Goldberg worked on developing a novel cell based therapy for Crohn's Disease, which is currently being investigated in a clinical trial. This work has been presented at several national and international conferences, as well as winning multiple grants and awards. Dr Goldberg has published widely in per reviewed journals. Dr Goldberg holds a consultant appointment at Monash Health. She is also a senior lecturer at Monash University, Department of Medicine, where she is head of the Cell Based and Regenerative Therapies group.

Ulrike Kappler

ee habits of highly essful pathogens – lar details of long-te interactions yeen *Haemophilus*



Professor Ulrike Kappler is Group Leader in the School of Chemistry and Molecular Biosciences at UQ, and Chair of the Metals in Biology group. She held an ARC Australian Fellowship (2008-12) and has proven expertise in managing research projects funded by ARC & NHMRC project grants (>\$2.5 million) as well as funding from other agencies. Prof. Kappler has > 20 years experience in bacterial physiology and the investigation of enzyme function and metabolic pathways in a wide variety of bacteria, with a particular focus on bacterial sulfur metabolism. Over the past ~10 years she has developed an extensive program of research on the physiology and pathogenesis of the human respiratory pathogen Haemophilus influenzae. Her laboratory is investigating the role of H. influenzae metabolism for host-pathogen interactions, as well as molecular defences against antimicrobials produced by the human immune system. Her research has contributed to the development of a novel model of H. influenzae infection that is based on primary human nasal cells differentiated at Air-Liquid Interface.